

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Kawata; Ichiro | Kurashiki | | | JP |
| Okamoto; Takehiko | Kurashiki | | | JP |
| Akasu; Hiroyuki | Kurashiki | | | JP |
| Komatsu; Kensaku | Kurashiki | | | JP |

US-CL-CURRENT: 210/500.23; 210/500.41

| | | | | | | | | | |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
| Draw Desc | Image | | | | | | | | |

KUMC

 11. Document ID: JP 03027311 A

L3: Entry 11 of 13

File: JPAB

Feb 5, 1991

PUB-NO: JP403027311A

DOCUMENT-IDENTIFIER: JP 03027311 A

TITLE: TRANSDERMAL MEDICAL DEVICE MANIFESTING HIGH ACTIVE SUBSTANCE FLOW AND ITS PRODUCTION

PUBN-DATE: February 5, 1991

INVENTOR-INFORMATION:

| NAME | COUNTRY |
|--------------------|---------|
| HORSTMANN, MICHAEL | |
| HERRMANN, FRITZ | |

US-CL-CURRENT: 604/304; 604/890.1

INT-CL (IPC): A61K 9/70; A61K 31/445; A61K 45/00

| | | | | | | | | | |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
| Draw Desc | Image | | | | | | | | |

KUMC

 12. Document ID: EP 568045 A1

L3: Entry 12 of 13

File: EPAB

Nov 3, 1993

PUB-NO: EP000568045A1

DOCUMENT-IDENTIFIER: EP 568045 A1

TITLE: Polysulfone-based hollow fiber membrane and process for manufacturing the same.

PUBN-DATE: November 3, 1993

INVENTOR-INFORMATION:

| NAME | COUNTRY |
|---------------------------------|---------|
| KAWATA, ICHIRO C O KURARAY CO L | JP |
| OKAMOTO, TAKEHIKO C O KURARAY C | JP |
| AKASU, HIROYUKI C O KURARAY CO | JP |
| KOMATSU, KENSAKU C O KURARAY CO | JP |

WEST**End of Result Set**

L3: Entry 13 of 13

File: DWPI

Mar 25, 1997

DERWENT-ACC-NO: 1997-201423

DERWENT-WEEK: 200027

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TITLE: Chemical drug delivery systems for transdermal delivery of high mol. wt. drugs
- comprises skin penetration enhancer and drug.

Basic Abstract Text (1):

A chemical drug delivery system (CDS) for transdermal delivery of high mol. wt. drug actives (DA) comprises a DA of mol. wt. 500-6000 Da encapsulated in a polymer with polyvinylpyrrolidone (PVP) skin penetration enhancer, the DA being encapsulated in a microsphere of 0.001-0.9 μ m size.

WEST

End of Result Set

L4: Entry 43 of 43

File: JPAB

Jul 7, 1998

DOCUMENT-IDENTIFIER: JP 10179722 A

TITLE: SURFACE TREATMENT

Abstract (2):

SOLUTION: A hydrogel and at least one medicine (hereinafter called as a medicine) selected from a water-soluble antithrombotic agent, an antiplatelet agent, and a dissolving agent for thrombus are fixed with a diisocyanate to the surface of a polyurethane and dried to obtain a medical apparatus. The obtd. apparatus slowly released the medicine by contact with an aq. soln. while it maintains the lubricating property of the surface. The hydrogel is, for example, hyaluronic acid, polyvinylpyrrolidone, gelatin and collagen. The antithrombotic agent is, for example, heparin, warfarin and antithrombin, the antiplatelet is, for example, ticlopidine hydrochloride, cilostazol, dipyridamol and sodium citrate for blood transfusion, and the dissolving agent for thrombus is, for example, urokinase.

WEST Search History

DATE: Wednesday, November 06, 2002

| <u>Set Name</u> side by side | <u>Query</u> | <u>Hit Count</u> | <u>Set Name</u> result set |
|---|--------------------------------------|------------------|-------------------------------|
| <i>DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR</i> | | | |
| L4 | hyaluron\$ adj3 polyvinylpyrrolidone | 43 | L4 |
| L3 | vesicle\$ same polyvinylpyrrolidone | 39 | L3 |
| L2 | vesicle\$ adj10 polyvinylpyrrolidone | 10 | L2 |
| L1 | vesicle\$ adj5 polyvinylpyrrolidone | 7 | L1 |

END OF SEARCH HISTORY

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|----------|-------|----------|---------|
| Konno; Yutaka | Shizuoka | | | JP |
| Mitomi; Mitsuo | Shizuoka | | | JP |
| Sonobe; Takashi | Shizuoka | | | JP |
| Yamaguchi; Shumpei | Tokyo | | | JP |

US-CL-CURRENT: 604/20; 607/3

| | | | | | | | | | |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
| Draw Desc | Image | | | | | | | | |

KUMC

8. Document ID: CN 1332639 A WO 200038731 A1 AU 200018028 A EP 1142588 A1 JP 2000590682 X KR 2001099975 A

L7: Entry 8 of 9

File: DWPI

Jan 23, 2002

DERWENT-ACC-NO: 2000-475628

DERWENT-WEEK: 200231

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TITLE: External formulation of basic pharmaceutical for sustained release, contains polyvinylpyrrolidone and carboxyvinyl polymer

INVENTOR: SUZUKI, Y; YOSHINO, Y

PRIORITY-DATA: 1998JP-0372968 (December 28, 1998)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|-----------------|------------------|----------|-------|------------|
| CN 1332639 A | January 23, 2002 | | 000 | A61K047/32 |
| WO 200038731 A1 | July 6, 2000 | J | 010 | A61K047/32 |
| AU 200018028 A | July 31, 2000 | | 000 | A61K047/32 |
| EP 1142588 A1 | October 10, 2001 | E | 000 | A61K047/32 |
| JP 2000590682 X | April 9, 2002 | | 000 | A61K047/32 |
| KR 2001099975 A | November 9, 2001 | | 000 | A61K047/32 |

INT-CL (IPC): A61 K 9/06; A61 K 9/08; A61 K 9/12; A61 K 9/70; A61 K 47/32

| | | | | | | | | | |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
| Draw Desc | Image | | | | | | | | |

KUMC

9. Document ID: US 5876744 A WO 9603973 A1 AU 9532544 A EP 773779 A1 IT 1273742 B

L7: Entry 9 of 9

File: DWPI

Mar 2, 1999

DERWENT-ACC-NO: 1996-129098

DERWENT-WEEK: 199916

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TITLE: New highly bio:adhesive and muco:adhesive aq. compsn - useful in the rehydration of skin and mucosal tissues

INVENTOR: CERINI, R; DELLA VALLE, F; LORENZI, S; MARCOLONGO, G

PRIORITY-DATA: 1994IT-MI01668 (August 1, 1994)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|-------------------|----------|-------|------------|
| US 5876744 A | March 2, 1999 | | 000 | A61F013/00 |
| WO 9603973 A1 | February 15, 1996 | E | 065 | A61K007/48 |
| AU 9532544 A | March 4, 1996 | | 000 | A61K007/48 |
| EP 773779 A1 | May 21, 1997 | E | 000 | A61K007/48 |
| IT 1273742 B | July 9, 1997 | | 000 | A61K000/00 |

INT-CL (IPC): A61 F 13/00; A61 K 0/00; A61 K 7/16; A61 K 7/48; A61 K 9/00

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|----------------------------|--------------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|----------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KUMC |
| Drawn Desc | Clip Img | Image | | | | | | | | |

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| Terms | Documents |
|--|-----------|
| (hyaluron\$ same polyvinylpyrrolidone) same (skin or hair) | 9 |

Display Format:

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WEST Search History

DATE: Wednesday, November 06, 2002

| <u>Set Name</u> | <u>Query</u> | <u>Hit Count</u> | <u>Set Name</u> |
|---|---|------------------|-----------------|
| | side by side | | result set |
| <i>DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR</i> | | | |
| L7 | (hyaluron\$ same polyvinylpyrrolidone) same (skin or hair) | 9 | L7 |
| L6 | (hyaluron\$ adj15 polyvinylpyrrolidone) same (skin or hair) | 0 | L6 |
| L5 | (hyaluron\$ adj10 polyvinylpyrrolidone) same (skin or hair) | 0 | L5 |
| L4 | hyaluron\$ adj3 polyvinylpyrrolidone | 43 | L4 |
| L3 | vesicle\$ same polyvinylpyrrolidone | 39 | L3 |
| L2 | vesicle\$ adj10 polyvinylpyrrolidone | 10 | L2 |
| L1 | vesicle\$ adj5 polyvinylpyrrolidone | 7 | L1 |

END OF SEARCH HISTORY

WEST Search History

DATE: Thursday, November 07, 2002

| <u>Set Name</u> | <u>Query</u> | <u>Hit Count</u> | <u>Set Name</u> |
|---|---|------------------|-----------------|
| side by side | | | result set |
| <i>DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR</i> | | | |
| L2 | steareth\$ same (liposome\$ or vesicle\$) | 4 | L2 |
| L1 | steareth\$ | 808 | L1 |

END OF SEARCH HISTORY